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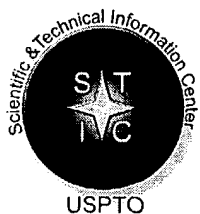
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# ***STIC Search Report***

## ***EIC 2100***

**STIC Database Tracking Number: 119561**

**TO: Baoqnoc To**  
**Location: 4A42**  
**Art Unit : 22172**  
**Wednesday, August 25, 2004**

**Case Serial Number: 09/768742**

**From: David Holloway**  
**Location: EIC 2100**  
**PK2-4B30**  
**Phone: 308-7794**

**david.holloway@uspto.gov**

### **Search Notes**

Dear Examiner To:

Attached please find your search results for above referenced case.

Please contact me if you have any questions or would like a re-focused search.

David



# STIC EIC 2100 Search Request Form

Today's Date:

08/25/04

What date would you like to use to limit the search?

Priority Date:

04/04/2001

Other:

Name

TD BAQUER

AU

2172

Examiner #

78889

Room #

4A42

Phone

3051949

Serial #

09/768 747

Format for Search Results (Circle One):

PAPER

DISK

EMAIL

Where have you searched so far?

USP

DWPI

EPO

JPO

ACM

IBM TDB

IEEE

INSPEC

SPI

Other

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Seven send the 1 updates message with  
2 portions (token + chg)  
if client response then send the  
second portion + chg  
if the response not received back from  
client, then send 1 + 2 mesgs to  
the client  
707 455 370

STIC Searcher

David Holloway

Phone

305 7777

Date picked up

8-25-04

Date Completed

8-25-04



DIACOG  
www

Set	Items	Description
S1	465695	UPDAT? OR UP() (DATE? OR DATING) OR SYNC OR SYNCs OR SYNCHR- ONI?
S2	176417	SERVER? OR MESSAGEsERVER?
S3	23652	TOKEN?
S4	3637385	RESPONS? OR ACKNOWLEDGE? OR ACK? ? OR NOTIFICATION?
S5	13934157	SECOND OR 2ND OR ADDITIONAL? OR NEXT? OR NEW? OR MORE? OR - PART(N) (TWO OR 2)
S6	26383	MULTIPART? OR (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURA- LITY OR MANY OR SEVERAL) (N) (PART? ? OR SEGMENT?)
S7	103109	SERVERSIDE? OR SEVER()SIDE? OR PUSH?
S8	3	S1 AND S2 AND S3 AND S4 AND S5
S9	0	S1 AND S2 AND S3 AND S6
S10	3	S1 AND S2 AND S3 AND S4 AND (S5 OR S6)
S11	656	S7 AND S1 AND (S5 OR S6)
S12	2	S11 AND S3
S13	60	S11 AND S4
S14	65	S8 OR S12 OR S13
S15	53	RD (unique items)
S16	45	S15 NOT PY>2001
S17	158	S7(4N)S1
S18	2	S16 AND S17
File	8:EI	Compendex(R) 1970-2004/Aug W3 (c) 2004 Elsevier Eng. Info. Inc.
File	35:	Dissertation Abs Online 1861-2004/Jul (c) 2004 ProQuest Info&Learning
File	202:	Info. Sci. & Tech. Abs. 1966-2004/Jul 12 (c) 2004 EBSCO Publishing
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File	94:	JICST-EPlus 1985-2004/Aug W1 (c) 2004 Japan Science and Tech Corp(JST)
File	111:	TGG Natl. Newspaper Index(SM) 1979-2004/Aug 25 (c) 2004 The Gale Group
File	233:	Internet & Personal Comp. Abs. 1981-2003/Sep (c) 2003 EBSCO Pub.
File	6:	NTIS 1964-2004/Aug W3 (c) 2004 NTIS, Intl Cpyrght All Rights Res
File	144:	Pascal 1973-2004/Aug W3 (c) 2004 INIST/CNRS
File	434:	SciSearch(R) Cited Ref Sci 1974-1989/Dec (c) 1998 Inst for Sci Info
File	34:	SciSearch(R) Cited Ref Sci 1990-2004/Aug W3 (c) 2004 Inst for Sci Info
File	62:	SPIN(R) 1975-2004/Jun W4 (c) 2004 American Institute of Physics
File	99:	Wilson Appl. Sci & Tech Abs 1983-2004/Jul (c) 2004 The HW Wilson Co.
File	95:	TEME-Technology & Management 1989-2004/Jun W1 (c) 2004 FIZ TECHNIK

18/5/1 (Item 1 from file: 35)  
DIALOG(R)File 35:Dissertation Abs Online  
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01741759 ORDER NO: AADAA-I9969041

**Collaborative and real-time transaction processing techniques in  
client-server database architectures**

Author: Kanitkar, Vinay Vasant

Degree: Ph.D.

Year: 2000

Corporate Source/Institution: Polytechnic University (0179)

Adviser: Alex Delis

Source: VOLUME 61/04-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 2036. 194 PAGES

Descriptors: COMPUTER SCIENCE

Descriptor Codes: 0984

Implementations of contemporary database systems have often been based on the client-server framework. Client-server databases (CSD) have utilized the processing capabilities and network bandwidths available today in order to successfully manage data and provide high transaction throughput. However, real-time transaction processing in a CSD environment has not been examined in much detail. This is an important **new** area of research as deployments of CSDs over local area networks and the world-wide web proliferate.

Initially, we study the efficiency of CSDs for real-time processing. We also propose a **new** policy for scheduling transactions that assigns higher priorities to transactions that have **more** of their required data available locally. Then, in order to further improve the efficiency of a CSD, we propose a load-sharing mechanism that co-ordinates the movement of data and transactions so as to process each transaction at the site that offers the highest probability of successful completion. The suitability of a client for processing a transaction is measured with respect to the availability of the transaction's required data in its local cache.

Since the above study of real-time transaction processing was performed in a pessimistic locking environment, we now present two techniques for propagating data **updates** to sites that have expressed an interest in that data. The objective is to avoid the frequent transaction blocking seen in CSDs that use pessimistic locking. Here, the actual propagation of **updates** is performed by shipping the **update** transactions themselves to the sites that are interested in receiving the **update** data. A rule-based mechanism ensures that **updates** are **pushed** to clients only when the contents of the data match client-specified criteria.

Finally, we introduce an optimistic transaction processing mechanism that advocates the elimination of pessimistic locking traditionally used in CSDs. Instead, we propose a protocol that allows transactions at various sites to **update** locally cached objects without having to acquire a global exclusive locks. Inconsistencies in copies of objects that have been maintained at multiple sites are resolved by a **second** stage of transaction processing at the server. The key premise is that in some application areas, users may be willing to trade-off a small degree of inaccuracy in the results of their queries in return for an improvement in their transactions' **response** times.

Set	Items	Description
S1	726797	UPDAT? OR UP() (DATE? OR DATING) OR SYNC OR SYNCs OR SYNCHR- ONI?
S2	638303	SERVER? OR MESSAGESERVER?
S3	67780	TOKEN?
S4	3939915	RESPONS? OR ACKNOWLEDGE? OR ACK? ? OR NOTIFICATION?
S5	17321122	SECOND OR 2ND OR ADDITIONAL? OR NEXT? OR NEW? OR MORE? OR - PART(N) (TWO OR 2)
S6	33810	MULTIPART? OR (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURA- LITY OR MANY OR SEVERAL) (N) (PART? ? OR SEGMENT?)
S7	333445	SERVERSIDE? OR SEVER()SIDE? OR PUSH?
S8	48	S1 AND S2 AND S3 AND S4 AND S5 AND S6
S9	16	S1 AND S7 AND S3 AND S4 AND S5 AND S6
S10	49	(S8 OR S9)
S11	43	RD (unique items)
S12	42	S11 NOT PY>2001
File	8: Ei Compendex(R)	1970-2004/Aug W3 (c) 2004 Elsevier Eng. Info. Inc.
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File	94: JICST-EPlus	1985-2004/Aug W1 (c) 2004 Japan Science and Tech Corp (JST)
File	111: TGG Natl. Newspaper Index (SM)	1979-2004/Aug 25 (c) 2004 The Gale Group
File	233: Internet & Personal Comp. Abs.	1981-2003/Sep (c) 2003 EBSCO Pub.
File	144: Pascal	1973-2004/Aug W3 (c) 2004 INIST/CNRS
File	34: SciSearch(R) Cited Ref Sci	1990-2004/Aug W3 (c) 2004 Inst for Sci Info
File	99: Wilson Appl. Sci & Tech Abs	1983-2004/Jul (c) 2004 The HW Wilson Co.
File	95: TEME-Technology & Management	1989-2004/Jun W1 (c) 2004 FIZ TECHNIK
File	275: Gale Group Computer DB(TM)	1983-2004/Aug 25 (c) 2004 The Gale Group
File	674: Computer News Fulltext	1989-2004/Aug W2 (c) 2004 IDG Communications
File	647: CMP Computer Fulltext	1988-2004/Aug W3 (c) 2004 CMP Media, LLC
File	636: Gale Group Newsletter DB(TM)	1987-2004/Aug 25 (c) 2004 The Gale Group

Set	Items	Description
S1	322010	UPDAT? OR UP() (DATE? OR DATING) OR SYNC OR SYNC S OR SYNCHR- ONI?
S2	138348	SERVER? OR MESSAGESERVER?
S3	8926	TOKEN?
S4	551283	RESPONS? OR ACKNOWLEDGE? OR ACK? ? OR NOTIFICATION?
S5	4467440	SECOND OR 2ND OR ADDITIONAL? OR NEXT? OR NEW? OR MORE? OR - PART(N) (TWO OR 2)
S6	12579	MULTIPART? OR (MULTIPLE OR MULTIPLICITY OR PLURAL OR PLURA- LITY OR MANY OR SEVERAL) (N) (PART? ? OR SEGMENT?)
S7	348036	SERVERSIDE? OR SEVER()SIDE? OR PUSH?
S8	6	S1 AND S2 AND S3 AND S4 AND S5
S9	0	S1 AND S2 AND S3 AND S6
S10	3336	S1 AND S7
S11	168	S10 AND S4
S12	58	S11 AND (S5 OR S6)
S13	64	S12 OR S8
S14	1	S13 AND IC=G06F-012?
S15	19	S13 AND IC=G06F?
S16	14	S1 AND (S2 OR S7) AND S3 AND S4
S17	28	S16 OR S15
S18	28	IDPAT (sorted in duplicate/non-duplicate order)
S19	27	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Nov 1976-2004/Apr(Updated 040802)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200454

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19/5/7 (Item 7 from file: 350)  
DIALOG(R)File 350:Derwent WPIX  
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014885375 \*\*Image available\*\*  
WPI Acc No: 2002-706081/200276  
XRPX Acc No: N02-556662

**Data synchronization method used in personal computer, handheld device, involves sending notification comprising change of data and token identifying change to receiving device**

Patent Assignee: MICROSOFT CORP (MICT ); FISHMAN N S (FISH-I); KADYK D J (KADY-I); SEINFELD M E (SEIN-I)

Inventor: FISHMAN N S; KADYK D J; SEINFELD M E  
Number of Countries: 027 Number of Patents: 002  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020099727	A1	20020725	US 2001768747	A	20010124	200276 B
EP 1227396	A1	20020731	EP 2002878	A	20020115	200276

Priority Applications (No Type Date): US 2001768747 A 20010124

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 20020099727 A1 16 G06F-012/00

EP 1227396 A1 E G06F-009/445

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): US 20020099727 A1

NOVELTY - The data (218) is changed and **notification** (290) comprising both the change (292) and a **token** (294) identifying the change is sent to a receiving device. A **synchronization** request is received from the device and the change is resend to the device if the request does not include the **token**.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Data **synchronization** system; and
- (2) Computer programmable product storing data **synchronization** instructions.

USE - Used in PC, handheld device, multi-processor system, microprocessor-based or programmable consumer electronics, network PC, minicomputer, mainframe computer, local and remote processing device for **synchronizing** data.

ADVANTAGE - The data is efficiently **synchronized** using the **notification** send to the receiving device and the **notification** can be **updated** without imposing burden on the user.

DESCRIPTION OF DRAWING(S) - The figure shows a block diagram of the data structures and communication channels for **synchronizing** client data with **server** data.

Data (218)

**Notification** (290)

Change (292)

**Token** (294)

pp; 16.DwgNo 2/4

Title Terms: DATA; **SYNCHRONISATION** ; METHOD; PERSON; COMPUTER; DEVICE;  
SEND; **NOTIFICATION** ; COMPRISE; CHANGE; DATA; **TOKEN** ; IDENTIFY; CHANGE;  
RECEIVE; DEVICE

Derwent Class: T01; W01

International Patent Class (Main): G06F-009/445; G06F-012/00

International Patent Class (Additional): G06F-009/44; H04L-029/06

File Segment: EPI



19/5/8 (Item 8 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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014877125 \*\*Image available\*\*

WPI Acc No: 2002-697831/200275

XRPX Acc No: N02-550288

Communication network e.g. Internet has client to insert its cell ID in updated request on receiving initial response including token with location information insertion field from server

Patent Assignee: MOTOROLA INC (MOTI ); HILL C (HILL-I); JANO B (JANO-I); PHILLIPS G (PHIL-I); SOUISSI S (SOUI-I)

Inventor: HILL C; JANO B; PHILLIPS G; SOUISSI S

Number of Countries: 100 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20020103936	A1	20020801	US 2001775036	A	20010201	200275 B
WO 200261600	A1	20020808	WO 2002US1946	A	20020123	200275
AU 2002236847	A1	20020812	AU 2002236847	A	20020123	200427

Priority Applications (No Type Date): US 2001775036 A 20010201

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20020103936	A1		15	G06F-015/16	
WO 200261600	A1 E			G06F-015/16	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA

CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN

IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ

OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG UZ VN YU ZA

ZM ZW

Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR

IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZM ZW

AU 2002236847 A1 G06F-015/16 Based on patent WO 200261600

Abstract (Basic): US 20020103936 A1

NOVELTY - A **server** transmits an initial **response** including a **token** with location information insertion field to a client through a gateway, on receiving a web page request from the client. The client transmits an **updated** request with its cell ID to the gateway. The gateway inserts client's location information from a GPS **server** with the request, and transmits to the **server** for obtaining required web page.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for location information transferring-collecting method.

USE - Communication network e.g. Internet accessed by WAP enabled wireless device such as mobile phone, pager, two-way radio, smart phone.

ADVANTAGE - Allows implementation of the insertion of location information to be dynamically dependent on network characteristics and **server** loads and thus provides **more** flexible process of location information collection and transfer.

DESCRIPTION OF DRAWING(S) - The figure shows a flowchart illustrating client location information insertion procedure.

pp: 15 DwgNo 5/9

Title Terms: COMMUNICATE; NETWORK; CLIENT; INSERT; CELL; ID; **UPDATE** ; REQUEST; RECEIVE; INITIAL; RESPOND; **TOKEN** ; LOCATE; INFORMATION; INSERT; FIELD; SERVE

Derwent Class: T01; W01; W02; W05; W06

International Patent Class (Main): G06F-015/16

File Segment: EPI

19/5/10 (Item 10 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
(c) 2004 Thomson Derwent. All rts. reserv.

014284459 \*\*Image available\*\*  
WPI Acc No: 2002-105160/200214  
XRPX Acc No: N02-078187

Monitoring apparatus for synchronizing distributed computer systems,  
connects host systems and server system over communication link so that  
server system transfers polling message to host systems for reboot

Patent Assignee: INTEL CORP (ITLC )

Inventor: DENT D E; JACOBSON J E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 6317879	B1	20011113	US 97988948	A	19971211	200214 B

Priority Applications (No Type Date): US 97988948 A 19971211

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
US 6317879	B1	15	G06F-009/445	

Abstract (Basic): US 6317879 B1

NOVELTY - A reset logic connected with a monitor logic resets the  
host systems and reboots off the polling process in the host systems in  
~~response to the output of the monitor logic that determine whether~~  
~~the host systems are to be resynchronized. The host systems and server~~  
system are connected over communication link so that the polling  
message is transferred from **server** system to host systems for reboot.

~~DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the~~  
~~following:~~

(a) Distributed host system monitoring method;

(b) Computer readable medium storing host system monitoring program

USE - For controlling entertainment system including home theater,  
security system, home automation system, Internet appliances for  
**synchronizing** the distributed computer systems in different  
environments including single family and multi family dwellings, and  
also in offices, industrial settings, toll collection facility and  
space stations.

ADVANTAGE - Since each of multiple distributed host systems obtains  
its operating system information from a common **server** system, the  
changes to operating system information is made in a common **server**  
without requiring the user to access each of the distributed systems  
individually.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart  
illustrating steps followed by host system in receiving and  
transmitting wellness **token** .

pp; 15 DwgNo 3/6

Title Terms: MONITOR; APPARATUS; DISTRIBUTE; COMPUTER; SYSTEM; CONNECT;  
HOST; SYSTEM; SERVE; SYSTEM; COMMUNICATE; LINK; SO; SERVE; SYSTEM;  
TRANSFER; POLL; MESSAGE; HOST; SYSTEM

Derwent Class: T01; T05

International Patent Class (Main): G06F-009/445

File Segment: EPI

19/5/12 (Item 12 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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013632273 \*\*Image available\*\*  
WPI Acc No: 2001-116481/200113  
XRPX Acc No: N01-085942

Users authentication system for client and server system, has updating units which respectively update random numbers in first and second cache tables, and new common locks

Patent Assignee: NEC SOFTWARE KYUSHU LTD (KYUN )

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 2000339270	A	20001208	JP 99146878	A	19990526	200113 B
JP 3498008	B2	20040216	JP 99146878	A	19990526	200413

Priority Applications (No Type Date): JP 99146878 A 19990526

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000339270	A		17	G06F-015/00	
JP 3498008	B2		16	G06F-015/00	Previous Publ. patent JP 2000339270

Abstract (Basic): JP 2000339270 A

NOVELTY - An **updating** unit (16,26) is used to respectively **update** the first, **second**, third, and fourth random numbers in a **second** cache table, and a **new** common lock. Another **updating** unit is used to respectively **update** the first, **second**, third, and fourth random numbers in a first cache table, and a **new** common lock.

DETAILED DESCRIPTION - An authentication **response token** receiver is used to produce the **new** common key from the fourth random number. The authentication **response token** receiver obtains the authentication **response token**, including the fourth random number, from a **server** (2). A completion **token** generation and transmitting unit (15) sends out the completion **token**, including the **second** random number, to a **server**. A completion **token** receiver (25) obtains completion **token** from the client (1). INDEPENDENT CLAIMS are also included for the following:

- (a) a users authentication procedure;
- (b) and a recording medium.

USE - For client and **server** system.

ADVANTAGE - Improves reliability of the users authentication system without affecting its capability. Reduces the possibility that a common key is intercepted since the common key is **updated** for every authentication.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the users authentication system.

Client (1)

**Server** (2)

Completion **token** generation and transmitting unit (15)

**Updating** unit (16,26)

Completion **token** receiver (25)

pp; 17 DwgNo 1/13

Title Terms: USER; AUTHENTICITY; SYSTEM; CLIENT; SERVE; SYSTEM; **UPDATE** ; UNIT; RESPECTIVE; **UPDATE** ; RANDOM; NUMBER; FIRST; **SECOND** ; CACHE; TABLE ; **NEW** ; COMMON; LOCK

Derwent Class: T01; W01

International Patent Class (Main): G06F-015/00

International Patent Class (Additional): H04L-009/32

File Segment: EPI

19/5/15 (Item 15 from file: 350)

DIALOG(R) File 350:Derwent WPIX

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012180537 \*\*Image available\*\*

WPI Acc No: 1998-597450/199851

XRPX Acc No: N98-464957

Updating client version of server data for data processing system - involves server sending data to client along with bind token to indicate version of data, to be incorporated into client's next request in service context

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: BAINBRIDGE A J; COCKS S J; FERGUSON D F; FREUND T; LEFF A; NORMINGTON G; RAYFIELD J T; STOREY R A

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2326000	A	19981209	GB 988553	A	19980423	199851 B
US 6161145	A	20001212	US 97853382	A	19970508	200067
GB 2326000	B	20011121	GB 988553	A	19980423	200201

Priority Applications (No Type Date): US 97853382 A 19970508

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2326000	A		20	G06F-001/00	
US 6161145	A			G06F-015/16	
GB 2326000	B			G06F-001/00	

Abstract (Basic): GB 2326000 A

The method involves a control point **server** (13) receiving a request from the client (11) for **server**-related data to be transferred. In **response** to the request, the control point **server** sends the data to the client along with a unique bind **token** which identifies the version number of the data.

The client uses the **server**-related data to form another request for the **server** (12) to perform part of the client's processing. The **server** sends the bind **token** to the **server** as part of the request, in a service context.

ADVANTAGE - The client's version of the **server**-related data can be **updated** without adding a large amount of function to the client, allowing the client to remain 'thin' consistent with the modern trend towards network computing where most of the function is located on **servers** rather than clients.

Dwg.1/8

Title Terms: **UPDATE** ; CLIENT; VERSION; SERVE; DATA; DATA; PROCESS; SYSTEM; SERVE; SEND; DATA; CLIENT; BIND; **TOKEN** ; INDICATE; VERSION; DATA; INCORPORATE; CLIENT; REQUEST; SERVICE; CONTEXT

Derwent Class: T01

International Patent Class (Main): G06F-001/00 ; G06F-015/16

International Patent Class (Additional): G06F-009/46

File Segment: EPI

19/5/18 (Item 18 from file: 350)  
DIALOG(R) File 350:Derwent WPIX  
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008662546 \*\*Image available\*\*  
WPI Acc No: 1991-166573/199123  
XRPX Acc No: N91-127699

Data interface system e.g. for vehicle engine - has data signal pushed from microcomputer to interface to be held in latch, and pulled out from second latch

Patent Assignee: MOTOROLA INC (MOTI )  
Inventor: BURRI M  
Number of Countries: 005 Number of Patents: 005  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
GB 2238694	A	19910605	GB 8927317	A	19891202	199123 B
EP 431434	A	19910612	EP 90122513	A	19901126	199124
EP 431434	A3	19911227	EP 90122513	A	19901126	199312
EP 431434	B1	19990224	EP 90122513	A	19901126	199912
DE 69032959	E	19990401	DE 632959	A	19901126	199919
			EP 90122513	A	19901126	

Priority Applications (No Type Date): GB 8927317 A 19891202  
Cited Patents: NoSR.Pub; 1.Jnl.Ref; EP 258872; US 4144583; US 4408272  
Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

GB 2238694	A	27		
EP 431434	A			
Designated States (Regional): DE FR GB IT NL				
EP 431434	B1	E	G06F-013/42	
Designated States (Regional): DE FR GB IT NL				
DE 69032959	E		G06F-013/42	Based on patent EP 431434

Abstract (Basic): GB 2238694 A

The interface system is coupled to a number of devices to be monitored and controlled by a processor, e.g. a microcomputer, and includes data communication circuitry coupled to the processor and to several interfaces arranged to initiate in response to the processor and a push /pull operation a sequence. A data signal is pushed from the processor to the interfaces to be held in a data latch (26) of a selected (6a) interface for outputting to one of the devices. A subsequent second sequence is produced where a data signal is pulled from second data latch (20) of the selected interface to the processor.

The following communication circuit may comprise any of the following configurations: one bus line for transmitting data and initiating a push /pull operation; one push /pull initiation line and one bus line; one push /pull initiation line and bus line for each of the interfaces. One push /pull initiation line, one bus line coupling the interface in a chain and a clock line for synchronising the push /pull operation may also be used.

USE/ADVANTAGE - E.g. vehicle air conditioner. Execution time required to write data to interface and to then read data from interface is reduced. (27pp Dwg.No.2/9

Title Terms: DATA; INTERFACE; SYSTEM; VEHICLE; ENGINE; DATA; SIGNAL; PUSH ; MICROCOMPUTER; INTERFACE; HELD; LATCH; PULL; SECOND ; LATCH

Derwent Class: T01; W01; X22

International Patent Class (Main): G06F-013/42

International Patent Class (Additional): G05B-019/00; G05B-023/02;

G06F-013/00 ; H04L-012/28

File Segment: EPI

19/5/25 (Item 25 from file: 347)  
DIALOG(R) File 347:JAPIO  
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07640712 \*\*Image available\*\*  
**PUSH** TYPE DATA DISTRIBUTION SYSTEM, MOBILE COMMUNICATION TERMINAL USED  
FOR THE SAME, AND CALL SERVER DEVICE

PUB. NO.: 2003-134566 [JP 2003134566 A]  
PUBLISHED: May 09, 2003 (20030509)  
INVENTOR(s): ARATAKE TATSUO  
IRUKAYAMA TAKETAKA  
APPLICANT(s): AICON KK  
NTT DOCOMO INC  
APPL. NO.: 2001-325806 [JP 2001325806]  
FILED: October 24, 2001 (20011024)  
INTL CLASS: H04Q-007/38; **G06F-013/00** ; H04M-003/42; H04M-011/00;  
H04Q-007/20

#### ABSTRACT

PROBLEM TO BE SOLVED: To provide a **push** type data distribution system that allows a server device to surely **update** the data of a mobile communication terminal on a proper opportunity and realizes a form available of application data in **response** to a plurality of kinds of the data.

~~SOLUTION: In the **push** type data distribution system provided with at least a call server device 5 and a mobile communication terminal 4, the mobile communication terminal 4 is started in **response** to a call from the call server device 5, the call server device 5 transmits data together with data kind information distributed at calling to allow the mobile communication terminal 4 to start an application in **response** to the data. The mobile communication terminal 4 uses the application to request the call server device 5 to distribute data and receives **newest** data at a prescribed opportunity.~~

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L Number	Hits	Search Text	DB	Time stamp
1	0	(reciev\$3 near2 ack\$6) same (notif\$6 with (portion\$1 or token\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:07
2	0	(reciev\$3 near2 ack\$6) and (notif\$6 with (portion\$1 or token\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:07
3	2	(reciev\$3 near2 ack\$6) same (portion\$1 or part\$1 or first or second)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:09
4	0	(updat\$3 or synchroniz\$5) same (reciev\$3 near5 ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:10
5	0	707/206.ccls. and (reciev\$3 with ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:10
6	0	(updat\$3 or synchroniz\$5) same (reciev\$3 near5 ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:10
7	3	(updat\$3 or synchroniz\$5) and (reciev\$3 near5 ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:11
9	2	((notification\$1 with updat\$3) same ack\$6) and 709/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:12
8	14	(notification\$1 with updat\$3) same ack\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:15
10	1	synchroniz\$5 and (notif\$6 with (portions or token\$1)) and (reciev\$3 with ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:32

11	0	synchroniz\$5 and (notif\$6 with (portions or token\$1)) and (fail\$3 with reciev\$3 with ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:32
12	0	synchroniz\$5 and (message\$1 with (portions or token\$1)) and (fail\$3 with reciev\$3 with ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:32
13	0	synchroniz\$5 and (message\$1 with (portions or token\$1)) and (fail\$3 same reciev\$3 same ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:33
14	0	709/248.ccls. and (reciev\$3 with ack%7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:35
15	0	709/248.ccls. and (reciev\$3 with ack\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:35
16	0	707/206.ccls. and (reciev\$3 with ack\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:35
17	0	707/\$.ccls. and (reciev\$3 with ack\$7)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:35
18	0	707/\$.ccls. and (reciev\$3 with (ACK or ack\$7))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:36
19	1	707/\$.ccls. and (reciev\$3 same (ACK or ack\$7))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:38
20	739	updat\$3 with (ACK or ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:38



21	40912	updat\$3 with reciev\$3 with ACK or ack\$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:40
22	0	updat\$3 with reciev\$3 with (ACK or ack\$6) with fail\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:39
23	0	(updat\$3 with reciev\$3 with (ACK or ack\$6)) same (fail\$3 with reciev\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:40
24	0	(updat\$3 with reciev\$3 with (ACK or ack\$6)) and (fail\$3 with reciev\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:40
25	0	updat\$3 with reciev\$3 with (ACK or ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:40
26	0	updat\$3 same (reciev\$3 with (ACK or ack\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:41
27	17	updat\$3 with fail\$3 with (ACK or ack\$6)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:42
28	0	(updat\$3 with fail\$3 with (ACK or ack\$6)) and ((re-send or resend) with (notification\$1 or message\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:43
29	3	(updat\$3 same (fail\$3 with (ACK or ack\$6))) and ((re-send or resend) with (notification\$1 or message\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:47
30	0	(updat\$3 same synchroniz\$4) and (reciev\$3 with (ACK or ack\$6))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:47

31	0	updat\$3 and (reciev\$3 with (ACK or ack\$6)) and (fail\$3 same (resend\$3 or re-send\$3) same (notification\$1 or message\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:49
32	0	updat\$3 and (reciev\$3 with (ACK or ack\$6)) and (fail\$3 same (resend\$3 or re-send\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:50
33	149	updat\$3 and (ACK or ack\$6) and (fail\$3 same (resend\$3 or re-send\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:50
34	17	(updat\$3 with notification\$1) and (ACK or ack\$6) and (fail\$3 same (resend\$3 or re-send\$3))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 13:52
35	20	(updat\$3 with notification\$1) and (ACK or ack\$6) and ((fail\$3 or NACK) same ((send\$3 or transmit\$5) with (first or second)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:41
36	139	leff.in.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:14
37	6	leff.in. and synchroniz\$5	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:15
38	1	leff.in. and synchroniz\$5 and legacy	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:17
39	534	oracle.as. and updat\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:17
40	7	oracle.as. and updat\$3 and (ACK or ack\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:20

41	7	oracle.as. and (updat\$3 or synchroniz\$4) and (ACK or ack\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:21
42	7	oracle.as. and (updat\$3 or synchroniz\$4) and (ACK or ack\$5 or NACK)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 15:22
43	3	(updat\$3 with notification\$1) and (ACK or ack\$6) and ((fail\$3 or NACK) same ((send\$3 or transmit\$5) with (first or second))) and (resend\$3 or re-send\$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:00
44	0	"push synchroniziation"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:00
45	0	"push synchronization"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:02
46	0	"pushing and pulling synchronizition"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:03
47	0	"pushing and pulling synchronization"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:03
48	4	"pushing synchronization"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:03
49	0	"pushing synchronization" and (ACK or ack\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:03
50	11661	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:04

51	4858	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and (fail\$3 or NACK)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:04
52	130	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and ((fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:08
53	93	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and ((fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))) and notification\$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:07
54	24	((push\$3 or pull\$3) synchronization) and (ACK or ack\$5) and ((fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))) and notification\$1) and 709/\$.cccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:08
55	1	((push\$3 or pull\$3) synchronization) same (ACK or ack\$5) same (fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:09
56	0	((push\$3 or pull\$3) synchronization) same (ACK or ack\$5) same ((fail\$3 or NACK) with (send\$3 with (part\$1 or portion\$1)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:10
57	1	((push\$3 or pull\$3) synchronization) same ((ACK or ack\$5) same (fail\$3 or NACK) same (send\$3 with (part\$1 or portion\$1)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/08/25 16:10